

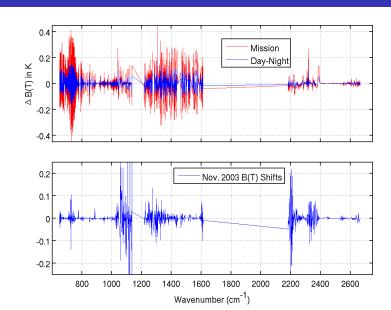


- Minor changes to transmittances based on continued validation.
- Pre- and Post-Nov 2003 RTA due to fringe shifts (put into Level 1C instead?)



B(T) Sensitivity to Spectral Calibration

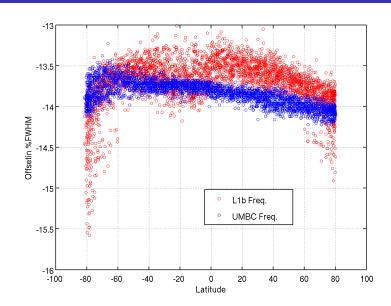
Version 6 mprovements





ASL PGE vs UMBC Freq Cal.

Version 6 Improvements





Level 1: Spectral Calibration, Level 1C Product

Version 6 Improvements

- Determine spectral calibration coefficients with V5 Cloud-cleared data (pre-processed offline); These give $\Delta v(t, lat)$
 - Data access could be an issue for this?
- Use V5/ECMWF atmospheric state (with clouds) to compute dR/dv
- Add computed $dR/dv \times \Delta v$ to R_{obs}
- Fix R_{obs} for fringe shifts? Only fix pre-Nov 2003 to post-Nov 2003 values using methodology similar to what is proposed for frequency calibration.
- Save corrected Robs as a Level 1C product



Level 2: Minor Gases, Aerosols, Cirrus

Version 6 Improvement

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- Use better CO₂ rate, latitude and altitude dependence
- SO₂, HNO₃. N₂O retrieval/indicator if ready.
- Dust optical depth retrievals and OLR forcing
- Cirrus retrievals